

Stacy A. McNulty - Curriculum Vitae

Contact Information

State University of New York College of Environmental Science and Forestry
Adirondack Ecological Center
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Appointments

Associate Director, Adirondack Ecological Center, Newcomb, NY (2010-2013; 2014-present)
Interim Director, Adirondack Ecological Center, Newcomb, NY (2013-2014)
Research Associate, Adirondack Ecological Center, Newcomb, NY (2004-present)
Instructional Support Technician, Adirondack Ecological Center, Newcomb, NY (2000-2004)
Conservation Ecologist, The Nature Conservancy's Great Lakes Program, Chicago, IL (2000)
Research Associate, Virginia Polytechnic Institute and State University, Blacksburg, VA (1997-2000)
Graduate Research Assistant, Adirondack Ecological Center, Newcomb, NY (1994-1997) *Research
Research Project Assistant*, SUNY Geneseo, Geneseo, NY (1993)

Education

State University of New York, College of Environmental Science and Forestry, Syracuse, NY (1997);
Master of Science in Environmental and Forest Biology
State University of New York at Geneseo, Geneseo, NY (1994); Bachelor of Arts in Biology with a
minor in Environmental Studies; Dean's List

Courses Taught

EFB484/684 Winter Mammalian Ecology – Spring 2010-present
EFB411 Research Methods: Understanding the Adirondack Ecosystem – Fall 2013
EST404 Synthesizing the Adirondack Park – Fall 2013 (co-taught)
EFB496/796 Adirondack Forest Ecology and Management
EFB497/797 Seminar: Issues in Global Conservation – Spring 2005
EFB497/797 Seminar: Water Quality in the Adirondacks – Spring 2006
EFB498 Research Problems in Environmental and Forest Biology
EFB420 Internship in EFB

Publications (* indicates student author)

LaMere, C. R.*, S. A. McNulty and J. E. Hurst. 2013. Human-black bear conflicts are related to
mast production in the Adirondack Mountains of New York State. Proceedings of the Eastern
Black Bear Workshop 2011. <http://www.easternblackbearworkshop.org/past-meetings.html>.

Cale, J.*, S. McNulty, S. Teale and J. Castello. 2013. The impact of beech thickets on northern

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- hardwood forest biodiversity. *Biological Invasions* 15:699-706.
<http://www.springerlink.com/openurl.asp?genre=article&id=doi:10.1007/s10530-012-0319-5>
- Beier, C.M., J.A. Stella, M. Dovciak and S.A. McNulty. 2012. Local climatic drivers of changes in phenology at a boreal-temperate ecotone in eastern North America. *Climatic Change* 115:399-417. DOI: 10.1007/s10584-012-0455-z.
- Jensen, P.G., C.L. Demers, S.A. McNulty, W. Jakubas, and M.M. Humphries. 2012. Marten and fisher responses to fluctuations in prey populations and mast crops in the northern hardwood forest. *Journal of Wildlife Management* 76:489-502. DOI: 10.1002/jwmg.322
- Brunner, J.L., K.E. Barnett, C. Gosier, S.A. McNulty, M. Rubbo, and M.B. Kolozsvary. 2011. Ranavirus infection in die-offs of vernal pool amphibians in New York, USA. *Herpetological Review* 42(1):76–79.
- Cale, J.A.*, McNulty, S.A., Teale, S.A., and Castello, J.D. 2010. Beech thickets impact northern hardwood forest biodiversity. *Journal of Forestry*. 108(8):423.
- Jablonski, K.E.*, S. A. McNulty, and M. D. Schlesinger. 2010. A digital spot-mapping method for avian field studies. *Wilson Journal of Ornithology* 122:772–776.
- Stager, J.C., S. McNulty, C. Beier, and J. Chiarenzelli. 2009. Historical patterns and effects of changes in Adirondack climates since the early 20th century. *Adirondack Journal of Environmental Studies* 15:14-24.
- Allen, E., R. Curran, S. Halasz, J. Barge, S. McNulty, A. Keal, and M. Glennon. 2009. Adirondack GIS: Resources, Wilderness, and Management. Marguerite Madden, ed. Pages 1135-1168 *in* the ASPRS Manual of Geographic Information Systems. American Society of Photogrammetry and Remote Sensing, Bethesda, MD. 1352pp.
- Signell, S., B. Zuckerberg*, S. McNulty, and W. Porter. 2008. Development of an Adirondack Ecosystem Model. *Adirondack Journal of Environmental Studies* 15:13-17.
- McNulty, S.A., S. Droege, and R.D. Masters. 2008. Long-term trends in breeding birds in an old-growth Adirondack forest and the surrounding region. *The Wilson Journal of Ornithology* 120:153–158.
- McNulty, S. 2006. The Adirondack Ecological Center at Huntington Wildlife Forest, SUNY College of Environmental Science and Forestry. *Ecological Society of America Bulletin* 87:59-65.
http://www.esapubs.org/bulletin/backissues/087-1/web_pdfs/fieldstation_jan06bulletin.pdf
- McNulty, S., C. Milewski, D. Spada, and R. Curran. 2005. The Adirondack All-Taxa Biological Inventory: Surveying Life in the Park. *Adirondack Journal of Environmental Studies* 12:4-7.
- McNulty, S. A. and R. D. Masters. 2005. Changes to the Adirondack forest: Implications of beech bark disease on forest structure and seed production. Pages 52-57 *in* Evans, C.A., J.A. Lucas, and M.J. Twery, eds. *Beech Bark Disease: Proceedings of the Beech Bark Disease Symposium*.

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General Technical Report NE-331. Newtown Square, PA. USDA Forest Service, Northern Research Station. 149pp.

http://www.fs.fed.us/ne/newtown_square/publications/technical_reports/pdfs/2005/331papers/mcnulty331.pdf

Jakubas, W. J., C. R. McLaughlin, P. G. Jensen, and S. A. McNulty. 2005. Alternate year beechnut production and its influence on bear and marten populations. Pages 79-87 in Evans, C.A., J.A. Lucas, and M.J. Twery, eds. Beech Bark Disease: Proceedings of the Beech Bark Disease Symposium. General Technical Report NE-331. Newtown Square, PA. USDA Forest Service, Northern Research Station. 149pp.
http://www.fs.fed.us/ne/newtown_square/publications/technical_reports/pdfs/2005/331papers/jakubas331.pdf

Nyland, R. D. and S.A. McNulty. 2004. Interpretation of silvicultural terminology in wildlife research and management: The example of Webb et al. (1977). *Journal of Wildlife Management* 68:1159-1160.

McNulty, S. A. 2004. Stitching Together the Patchwork Quilt: Using GIS to Assist the Inventory Portion of the Adirondack Forest Preserve Unit Management Planning Process. *Adirondack Journal of Environmental Studies* Vol. 11:5-9.

Haulton, S. McNulty, B. A. Rudolph, and W. F. Porter. 2001. Evaluating four methods to capture white-tailed deer. *Wildlife Society Bulletin* 29:255-264.

McNulty, S. A.*, W. F. Porter, N. E. Mathews, and J. A. Hill. 1997. Localized management for reducing white-tailed deer populations. *Wildlife Society Bulletin* 25:265-271.

McNulty, S. A. 1997. Influence of logging disturbance on recruitment and social organization of white-tailed deer in the central Adirondacks. M. S. Thesis, State University of New York, College of Environmental Science and Forestry, Syracuse, N.Y. 90pp.

Non-Peer-Reviewed Publications

McNulty, S. Beech Nuts, Mice and Bears. *Adirondack Almanack*, 29 August 2012.

<http://www.adirondackalmanack.com/2012/08/stacy-mcnulty-beech-nuts-mice-and-bears.html>

McNulty, S. Spring Chorus: Vernal Pools and their Inhabitants. *Adirondack Almanack*, 18 April, 2011. http://www.adirondackalmanack.com/2011/04/wetlands-vernal-pools-and-their_19.html

Selected Presentations and Posters (* indicates student author)

White pine management at ESF – Engaging a new century of research and education. Nowak, C., R. Germain, S. McNulty, C. Demers, B. Breitmeyer, M. Gooden, P. Hai, Q. Oliver* and J. Kindt*. New York Society of American Foresters Annual Meeting, January 22-24, 2014, East Syracuse, NY. Poster.

A multi-scale study of Rusty Blackbirds, nest predation and forest management in the northeastern United States.

Buckley, S.*, S. McNulty and T. Hodgman. International Rusty Blackbird Technical Working

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Group and Bird Conservation Conference in the Northeast, 16-19 October, 2012, Plymouth, MA. Presentation.

*Using Motion-Triggered Trail Cameras to Document Nest Predation in the Declining Rusty Blackbird (*Euphagus carolinus*): A Novel Nest-Monitoring Technique for Forest Passerines.* Buckley, S.*, S. McNulty and T. Hodgman. North American Ornithological Conference V, Vancouver, British Columbia 15-18 August 2012. Poster.

Habitat Characteristics and Amphibian Reproduction in Adirondack Vernal Pools: Is Wet Enough? McKissick, K.* and S. McNulty. Northeastern Partners in Amphibian and Reptile Conservation, Crawford Notch, NH 25 July 2012. Poster.

Effect of Variable Mast Production on Human-Black Bear Conflicts in the Adirondack Park of New York. LaMere, C. and S. McNulty. Northeast Natural History Conference 2012, Syracuse, NY April 16-18, 2012. Presentation.

Visions of the Future for Adirondack Park: Process, Participation and Power. FW885 – Leadership in Natural Resource, Michigan State University. Invited Presentation. January 2012.

Field Programs and Stations: Where and How to Extend the Classroom. McNulty, S. Environmental Consortium of Hudson River Colleges and Universities, Albany, NY, 12 November 2011.

Understanding the Hudson with Technology. Signell, S., S. McNulty and C. Beier. Environmental Consortium of Hudson River Colleges and Universities, Albany, NY, 12 November 2011.

Effect of Variable Mast Production on Human-Black Bear Conflicts in the Adirondack Park of New York. LaMere, C.* and S. McNulty. 20th Eastern Black Bear Workshop, Hendersonville, NC, May 1-4, 2011. Presentation.

ARLAS – A geospatial relational database for the Adirondack region. Signell, S., S. McNulty, and C. Beier. Adirondack Research Consortium, Lake Placid, NY May 18, 2011. Presentation.

Habitat Associations of Adirondack Lowland Boreal Birds. Jablonski, K.* and S. McNulty. Northeast Natural History Conference 2011, Albany, NY April 7-8, 2011. Presentation.

Beech Thickets Impact Northern Hardwood Forest Biodiversity. Cale, J.A.*, S. A. McNulty, S.A. Teale and J.D. Castello. Northeast Natural History Conference 2011, Albany, NY April 7-8, 2011. Poster.

Terrestrial Salamander Diet Along a Calcium Gradient in the Adirondack Park, NY. Snyder, C.M.*, S.A. McNulty, M.K. Fierke, C.M. Beier, and R.D. Briggs. Northeast Natural History Conference. New York State Museum, Albany, NY. 8 April 2011. Presentation.

*An Analysis of the Effects of Upland Habitat on Wood Frog (*Lithobates sylvatica*) and Spotted Salamander (*Ambystoma maculatum*) Reproduction in Vernal Pools.* Katie McKissick*, National Conference on Undergraduate Research, Ithaca, NY March 31-April 1, 2011. Poster.

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Beech Dynamics after Shelterwood Seed Cutting in Huntington Wildlife Forest. Haykuni, A.*, R. D. Nyland, M. Gooden, and S. McNulty. Society of American Foresters Conference, Albuquerque, NM, November 2010. Poster.

Beech thickets impact northern hardwood forest biodiversity. Cale, J.A.*, S. A. McNulty, S.A. Teale and J.D. Castello. Society of American Foresters annual conference, October 29, 2010 Albuquerque, NM. [won 3rd place Best Student Poster Award]

Source to Sink: Hudson River Watershed Research and Education Meeting. McNulty, S., K. Limburg, and L. Johnson. Environmental Consortium of Hudson Valley Colleges & Universities Annual Conference, October 15-16, 2010, Rockland Community College, Suffern, NY. Poster.

Real-Time Access to Remote Data in the Adirondack Mountains. McHale, P.J., M. J. Mitchell, D. H. Lyons, T. Nowak, and S. McNulty. OBFS 2010 Annual Meeting, University of Michigan Biological Station, Pellston, MI, September 22-26, 2010. Poster.

The influence of landscape factors on long-term beaver site occupancy. Harrison, A.M.*, J. C. Stella, and S. McNulty. 95th Ecological Society of America Annual Meeting, August 3, 2010, Pittsburgh, PA. Presentation.

Integrating spatial datasets for use in ecosystem services assessment and modeling. Signell, S., S. McNulty and C. Beier. International Association of Landscape Ecologists meeting, Utah, 2009. Presentation.

Grants Received

Rooks, M., S. McNulty, C. Beier, P. Hai, D. Patrick, and T. Howard. Detecting Climate Change in Wetlands in the Adirondack Park. EPA Wetland Program Development Grant. Phase 2: \$234,315 (ESF portion \$61,781). January 1, 2014 – December 31, 2015. Sam Beguin.

C. Beier, P. Hirsch, A. Parker, S. McNulty. New York State Department of Environmental Conservation, Application of GIS to Resource Inventory for Unit Management Planning, \$126,231, \$49,485 8/6/13 – 8/31/14. Abigail Larkin, Dan Rockefeller, Erin Swallow.

McNulty, S. and J. Stella. Beaver Influence on Vegetation Structure and Avian Diversity at Local and Landscape Scales. McIntire-Stennis program, \$52,000, \$26,000. May 31 – August 31, 2014. Carissa Alza.

McNulty, S., M. O'Brien, C. Foss, D. Hudnut and S. Flint. Northeastern States Research Cooperative. An Investigation of Rusty Blackbird Foraging Sites: Does Timber Harvesting Influence Site Selection? \$10,000, May 1, 2013 – May 1, 2014. Michael O'Brien.

Germain, R., C. Nowak, S. McNulty and E. Bevilacqua. Sustaining White Pine on High Quality Sites. McIntire-Stennis program, \$66,220, 2/1/12-9/30/14. Quincey Oliver, Tinna Chan.

Spada, D., S. McNulty, C. Beier, P. Hai, D. Patrick, and T. Howard. Building a Monitoring

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Framework for Detecting Climate Change Effects on Wetlands in the Adirondack Park. EPA Wetland Program Development Grant. Phase 1: \$865,848, \$227,000 (ESF portion \$81,000). January 1, 2012 – December 31, 2013. Sam Beguin.

Hodgman, T. and S. McNulty. A Multi-Scale Study of Rusty Blackbirds, Nest Predation, and Timber Management in the Moosehead Lake Region, Maine. Maine Outdoor Heritage Fund (with match from Maine Dept. Inland Fisheries and Wildlife/USFWS Federal Aid). \$15,480, \$15,480. 1/1/12-12/31/12. Shannon Buckley.

McNulty, S. Comparison of Nesting Rusty Blackbirds in the Adirondacks and New England. Northern New York Audubon Chapter Cullman Grant, \$1,500, \$1,500. May 1, 2012 – August 31, 2013. Shannon Buckley.

McNulty, S., and R. Kimmerer. National Science Foundation Undergraduate Mentoring in Environmental Biology Program. Integrating Science and Stewardship in the Adirondacks – an NSF UMEB RAHSS Supplemental Grant Proposal. \$3,900, \$3,900; 6/1/11 – 5/31/12.

Kimmerer, R. and S. McNulty. National Science Foundation Undergraduate Mentoring in Environmental Biology Program. Integrating Science and Stewardship in the Adirondacks. \$591,925, \$150,830. 6/1/06 -5/31/13. Elizabeth Dowling, Madeline Turnquist, Jacqueline Bilello, Jon Cale, Meredith Kane, Caitlin Snyder.

McNulty, S., M. Patinelli-Dubay, and R. Kimmerer. National Science Foundation Undergraduate Mentoring in Environmental Biology Program. The Ethics of Land Use, Land Stewardship and the Culture of Research: an Interdisciplinary Approach – an NSF UMEB Ethics Supplemental Grant Proposal. \$3,600, \$3,600; 6/1/06 – 5/31/12.

McNulty, S. and C. Beier. New York State Department of Environmental Conservation, Application of GIS to Resource Inventory for Unit Management Planning, \$891,922, \$135,922 6/1/03 – 8/5/13. Steve Signell, Senior Research Support Specialist, Abigail Larkin.

McNulty, S. Federal Aid via New York Department of Environmental Conservation. Effect of Variable Mast Production on American Black Bear Reproduction and Bear-Human Conflict in the Central Adirondack Mountains. \$60,607, \$60,607. 8/20/10-3/31/12. Courtney LaMere.

McNulty, S.A. and K.E. Limburg. SUNY Conversation in the Disciplines. Source to Sink: Hudson River Watershed Education and Research Meeting. \$4,935, \$4,935. 9/1-10/31/10 .

McNulty, S., J. Castello, and S. Teale. Northeastern States Research Cooperative. The influence of American beech thickets on biodiversity in the northern hardwood forest. \$34,785, \$34,785. 10/1/09 – 9/30/11. Jon Cale.

Patrick, D.A. and S.A. McNulty. Northeastern States Research Cooperative. Assessing biodiversity, forest condition and the effects of management in the Northern Forest: protocol development and field trial in Adirondack Park. \$15,000, \$15,000. 10/1/09 – 9/30/10.

McNulty, S. Nonnative earthworm impacts on woodland salamanders and their native prey:

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Implications for Adirondack forest health. T. Urling and Mabel Walker Research Fellowship, Merwin Rural Services Institute, SUNY Potsdam, \$3,945, \$3,945. 5/15/10-5/31/11. Caitlin Snyder.

Hai, P.B., S. McNulty, and W. F. Porter. National Science Foundation Field Stations and Marine Labs. Expanding High-speed Internet Capacity at the Huntington Wildlife Forest. \$154,700, \$154,700. 9/2008-8/2010.

Porter, W.F. and S. McNulty. A risk assessment of a Chronic Wasting Disease outbreak in New York. Funded by NYS Department of Environmental Conservation. CoPI with William F. Porter (\$1,008,193; 2005-2010).

McNulty, S. Evaluation of residential communities as winter habitat for white-tailed deer in the Adirondacks of Northern New York State. T. Urling and Mabel Walker Research Fellowship, Merwin Rural Services Institute, SUNY Potsdam, 2004 (\$4,000).

Porter, W.F. and S. McNulty. Completion of Student Housing Facilities at the Adirondack Ecological Center. National Science Foundation, 2003 (\$197,569 total).

Porter, W.F. and S. McNulty. Application of GIS to the Adirondack Park Unit Management Planning Process. Sweet Water Trust (\$5,000).

Service and Related Experience

- Secretary, Organization of Biological Field Stations Board of Directors (2014-present)
 - OBFS Member-at-large (2012-2013)
 - Chair, OBFS Human Diversity Committee (2010-2013)
- Board member, Adirondack Research Consortium (2009-present) and AJES reviewer
- Member, ESF Council for Geospatial Modeling and Analysis (2004-present)
- Coordinator, Huntington Lecture Series, a public, weekly forum in summer (2005-present)
- Reviewer, Journal of Wildlife Management and Wildlife Society Bulletin (1997-present)
- Editor, *Spruce Moose* newsletter of AEC (2006-2012)
- Reviewer, National Science Foundation Field Stations and Marine Labs programmatic planning and site review (2003-present)
- Northeastern Partners in Amphibian and Reptile Conservation (co-leader, Vernal Pool Working Group, 2009-present)
- Member, ESF Committee on Public Service (2009-10)
- Member, ESF Committee on Research (2010-11)
- Co-organizer, Northeastern Arc User's Group conference, Lake Placid, NY (2004)
- Instructor of GIS training courses at VPI&SU and the USFWS National Conservation Training Center, including *Vegetation Survey using Aerial Videography* (1999)
- Mist-netted and cared for bank swallows and bobolinks in a homing behavior study (1993)

Student Mentoring

Advisor or co-advisor for Master of Science advisees:

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- Snyder, C. 2011. Terrestrial salamanders in the Adirondack Mountains: Feeding ecology and implications of calcium.
- Jablonski, K. 2012. Habitat associations of Adirondack lowland boreal birds at Spring Pond Bog, New York.
- LaMere, C. 2012. Influence of variable mast production on American black bear reproduction and human-black bear conflicts in the Adirondack Mountains of New York State.
- Wilkinson, S. 2013. Density dependence and stochastic variation in overabundant, unmanaged white-tailed deer herds of eastern national parks.
- Buckley, S. 2013. Rusty Blackbirds in northeastern industrial forests: a multi-scale study of nest habitat selection and nest survival.
- McCoy, T. MS expected 2014
- Alza, C. MS expected 2014
- Pachomski, A. MS expected 2015
- Beguin, S. MS expected 2015

Advisor for 20 independent undergraduate researchers to date.

Affiliations and Organizations

Adirondack GIS User's Group
Ecological Society of America
The Nature Conservancy
Society of Conservation Biology
The Wildlife Society